

Catechin Profiles in *C. barkleyi* -no treatment

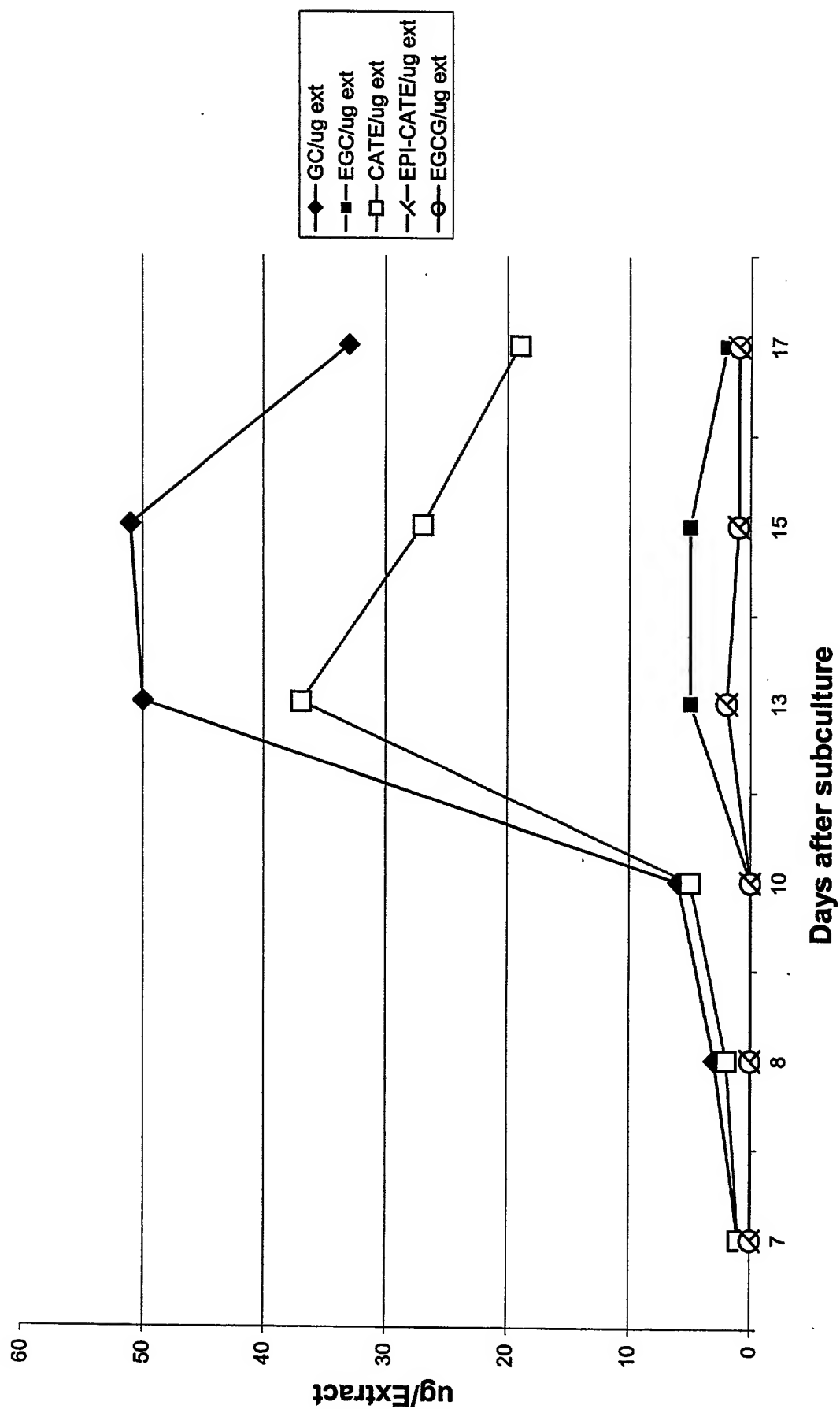


FIG. 1

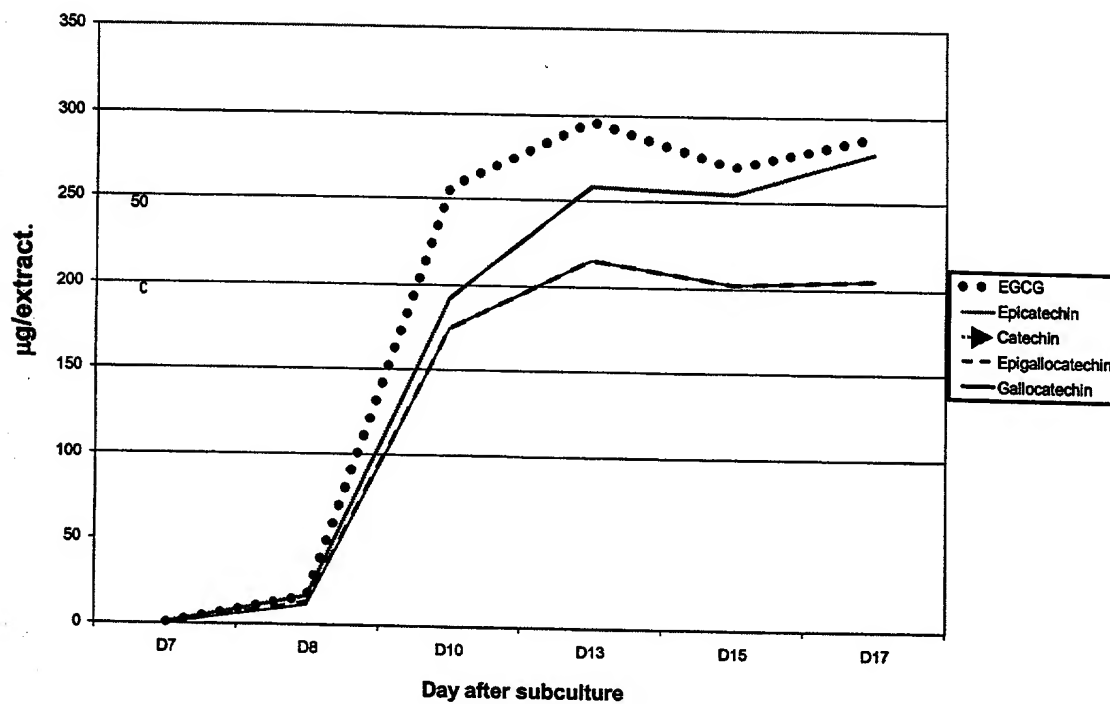


FIG. 2

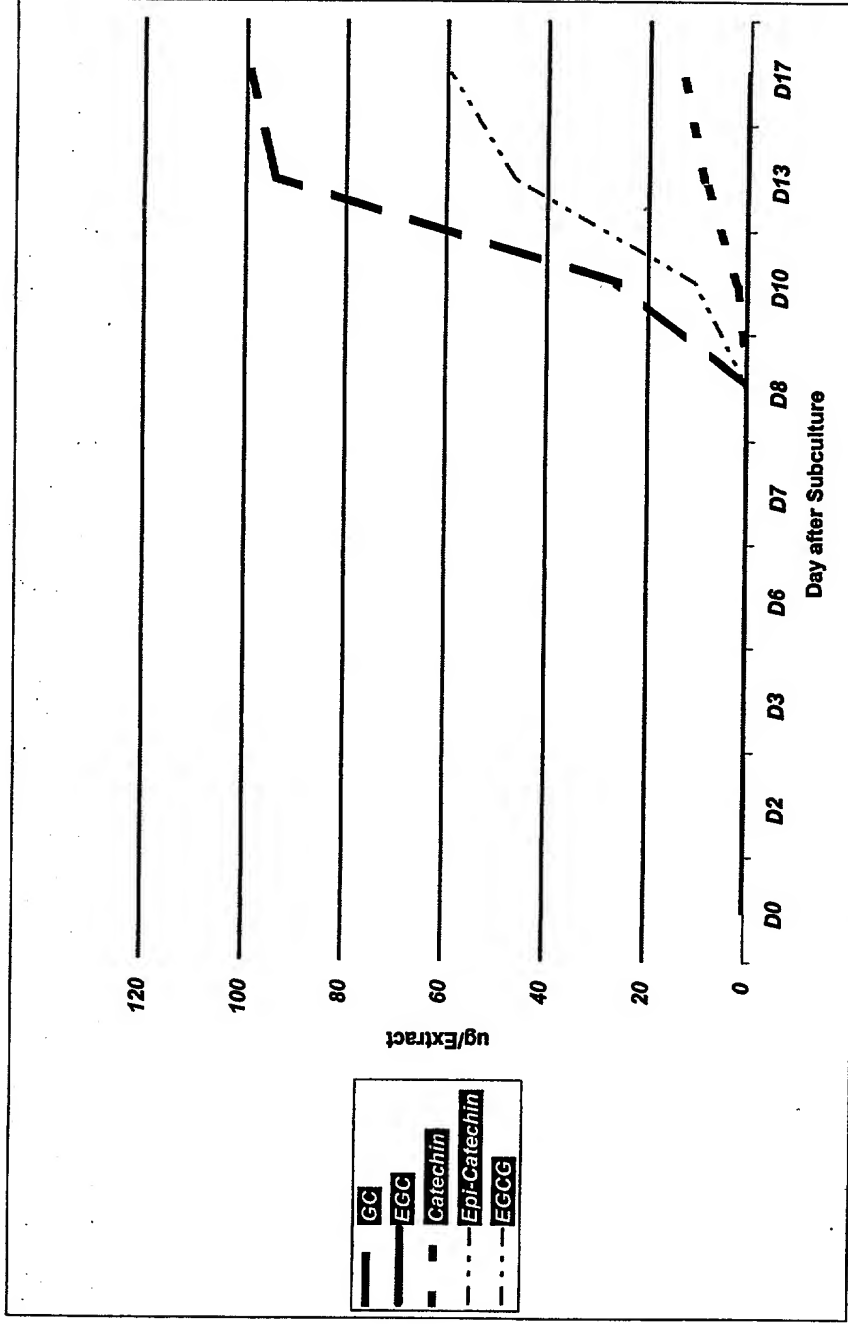


FIG. 3

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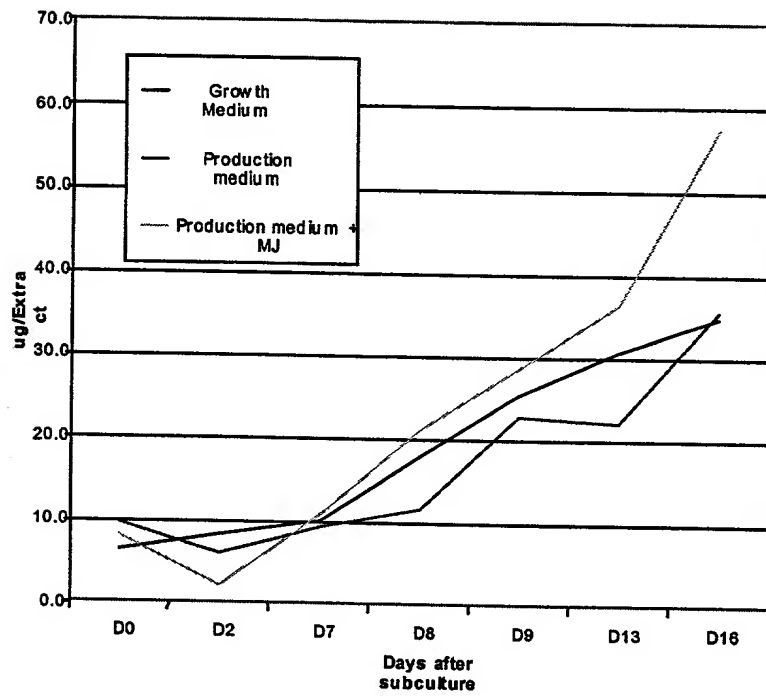


FIG. 4

SEQ ID NO: 1
SEQ ID NO: 2

S	V	N	D	N	P	L	I	D	V	S	R
TCT	GTC	AAC	GAC	AAC	CCG	TTG	ATC	GAT	GTC	TCG	AGG
N	K	A	I	H	G	G	N	F	Q	G	T
AAC	AAG	GCC	ATC	CAT	GGT	GGA	AAC	TTC	CAA	GGA	ACC
P	I	G	V	S	M	D	N	T	R	L	A
CCG	ATC	GGT	GTG	TCC	ATG	GAC	AAC	ACC	AGG	CTA	GCA
L	A	A	I	G	K	L	M	F	A	Q	F
CTG	GCA	GCT	ATT	GGG	AAG	CTC	ATG	TTT	GCT	CAG	TTC
S	E	L	V	N	D	F	Y	N	N	G	L
TCC	GAG	CTT	GTC	AAT	GAC	TTC	TAC	AAC	AAT	GGT	CTG
P	S	N	L	S	G	S	R	N	P	S	L
CCA	TCG	AAT	CTG	TCT	GGC	AGC	AGG	AAC	CCC	AGC	TTG
D	Y	G	L	K	G	A	E	I	A	M	A
GAC	TAT	GGG	CTT	AAA	GGA	GCG	GAG	ATC	GCA	ATG	GCT
S	Y	C	S	E	L	Q	F	L	G	N	P
TCC	TAC	TGT	TCC	GAR	CTT	CAG	TTC	CTT	GGT	AAC	CCG
V	T	N	H	V	Q	S	A	E	Q	H	N
GTT	ACT	AAC	CAT	GTC	CAG	AGC	GCT	GAG	CAG	CAT	AAC
Q	D	V	N	S	L	G	L	I	S	S	R
CAG	GAT	GTC	AAC	TCA	TTG	GGA	TTG	ATC	TCA	TCA	AGG
K	T	A	E	A	V	D	I	L	K	L	M
AAG	ACA	GCT	GAA	GCT	GTT	GAC	ATC	TTG	AAG	CTC	ATG
T	S	T	Y	L	V	A	L	C	Q	A	V
ACA	TCG	ACT	TAC	TTG	GTG	GCC	CTT	TGC	CAA	GCT	GTT
D	L	R	H	M	E	E	N	L	R	N	T
GAC	CTG	AGG	CAC	ATG	GAA	GAG	AAT	CTT	AGG	AAC	ACT
V	K	N	T	V	S	Q	V	A	K	R	T
GTG	AAG	AAC	ACC	GTG	AGC	CAA	GTC	GCC	AAG	AGG	ACG
L	T	T	G	A	N	G	E	L	H	P	S
CTC	ACM	ACA	GGA	GCC	AAC	GGT	GAG	CTT	CAC	CCA	TCG
R	F	C	E	K	D	L	L	K	V	V	D
AGA	TTC	TGC	GAG	AAG	GAC	TTG	CTC	AAA	GTR	GTT	GAC
R	E	Y	V	F	A	Y	I	D	D	P	C
AGA	GAG	TAT	GTG	TTC	GCG	TAC	ATT	GAT	GAC	CCC	TGC
L	A	T	Y	P	L	M	Q	S	L	G	A
CTG	GCA	ACT	TAC	CCT	CTG	ATG	CAA	AGC	TTA	GGG	GCT

Fig. 5A

204270 6249500T

SEQ ID NO: 3
SEQ ID NO: 4

E	N	N	K	G	A	R	V	L	V	I	C
GAG	AAC	AAC	AAG	GGC	GCT	CGC	GTG	TTG	GTG	ATT	TGC
S	E	I	T	A	V	T	F	R	G	P	S
TCT	GAG	ATC	ACT	GCT	GTT	ACC	TTC	CGT	GGC	CCA	AGC
D	T	H	L	Y	S	L	V	G	Q	A	L
GAT	ACT	CAT	TTG	TAC	AGT	CTT	GTA	GGT	CAG	GCC	TTG
F	G	D	G	A	A	A	V	I	L	G	A
TTC	GGA	GAC	GGA	GCT	GCA	GCA	GTC	ATC	CTC	GGA	GCA
D	P	L	P	E	E	K	P	M	F	E	L
GAC	CCC	CTT	CCC	GAA	GAG	AAG	CCC	ATG	TTT	GAA	CTT
V	S	A	A	Q	T	I	L	P	D	S	E
GTN	TCT	GCA	GCT	CAG	ACC	ATC	TTG	CCA	GAC	AGT	GAA
G	A	I	D	G	H	L	S	E	V	G	L
GGC	GCC	ATC	GAC	GGT	CAT	CTT	AGT	GAA	GTT	GGT	CTC
T	F	H	L	L	K	D	V	P	G	L	I
ACA	TTC	CAT	TTG	CTT	AAG	GAC	GTT	CCC	GGG	CTG	ATC
S	K	N	I	E	K	G	L	V	E	A	F
TCC	AAG	AAC	ATT	GAG	AAG	GGT	CTA	GTC	GAG	GCA	TTC
K	P	I	G	I	E	D	G	T			
AAG	CCT	ATC	GGT	ATC	GAA	GAC	GGA	ACT	CA		

Fig. 5B

SEQ ID NO: 5
SEQ ID NO: 6

P E A V K D W R E I V T
CCC GAG GCA GTG AAG GAY TGG CGT GAG ATT GTG ACT

Y F S Y P V S A R D Y S
TAC TTC TCA TAC CCG GTC TCA GCC AGG GAC TAC TCA

R W P D K P E A W K E V
CGC TGG CCG GAC AAG CCT GAG GCC TGG AAG GAG GTG

T K R Y S D T L M G L A
ACC AAG CGT TAC AGC GAC ACG CTG ATG GGT CTG GCA

C K L X E V L S E A M G
TGT AAG CTT STA GAG GTC TTA TCT GAA GCG ATG GGA

L E K E A L T K A C V D
CTA GAG AAG GAG GCT CTG ACT AAG GCC TGT GTT GAC

M D Q K V V V N Y Y P K
ATG GAC CAG AAA GTT GTT GTC AAC TAC TAC CCC AAG

C P E P D L T L G L K R
TGT CCT GAG CCT GAT CTA ACT TTG GGA CTC AAG AGG

H T D P G T I T L L L Q
CAT ACC GAC CCC GGG ACG ATC ACC TTG CTT CTC CAG

D Q V G G L Q A T R D D
GAC CAA GTT GGC GGG CTT CAG GCC ACT AGA GAT GAT

G K
GGT AAG AC

Fig. 5C

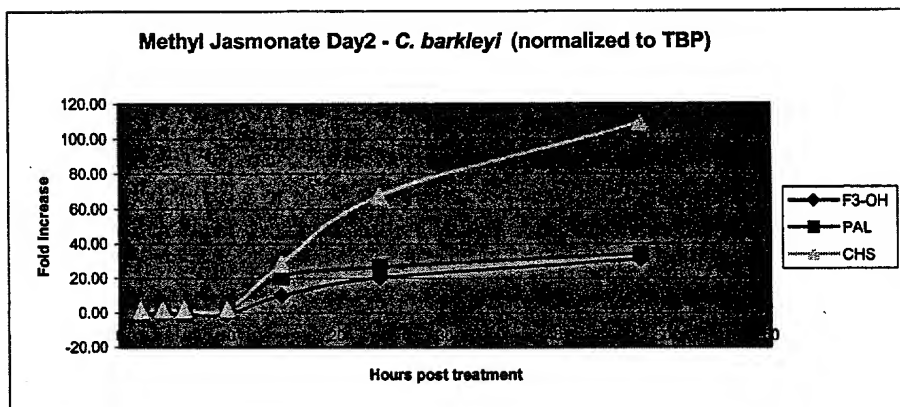


FIG. 6A

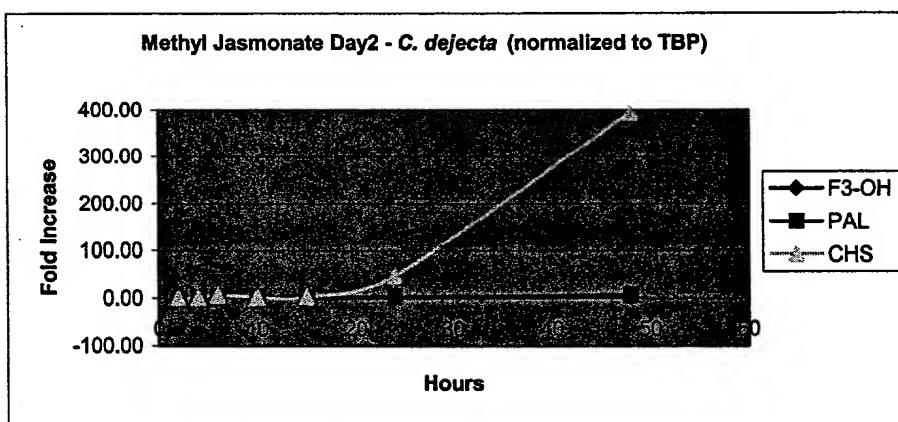


FIG. 6B

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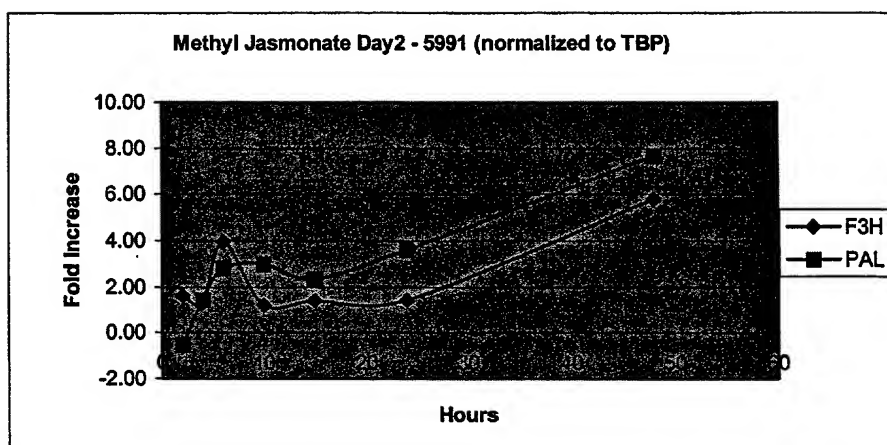


FIG. 6C

Oligonucleotides used for SYBR Green assays.

TBP-5'	GARTAYAAYCCVAAGCGTTTTGC	SEQ ID NO: 7
TBP-3'	GGRTAKATGTTYTCRAAGGCRG	SEQ ID NO: 8
CHS-5'	ATGATGTACCARCARGGGTGCTTYGC	SEQ ID NO: 9
CHS-3'	AGCCCGGGAACGTCCTTAAGC	SEQ ID NO: 10
PAL-5'	G TSAACGACAACCKTTGATCGATG	SEQ ID NO: 11
PAL-3'	ACTTGGCTCACSGTGTTCTTSAC	SEQ ID NO: 12
F3-OH-5'	GAAGGAGGTGACCAAGCGTTACAG	SEQ ID NO: 13
F3-OH-3'	TGGCCTGAAGCCCGCCAAC TTGGTC	SEQ ID NO: 14

FIG. 7

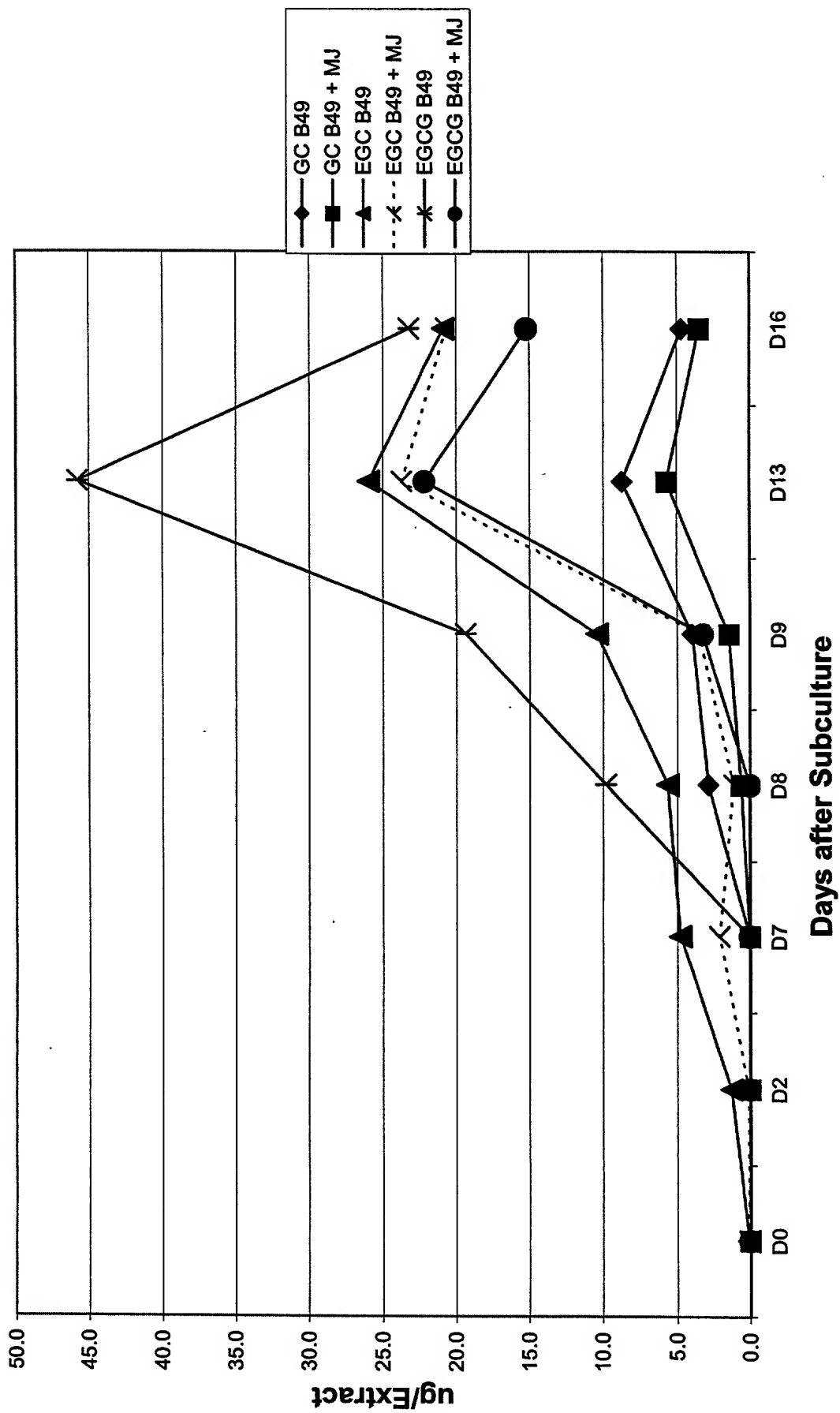
Catechin Accumulation in *Sempervivum tectorum*

FIG. 8

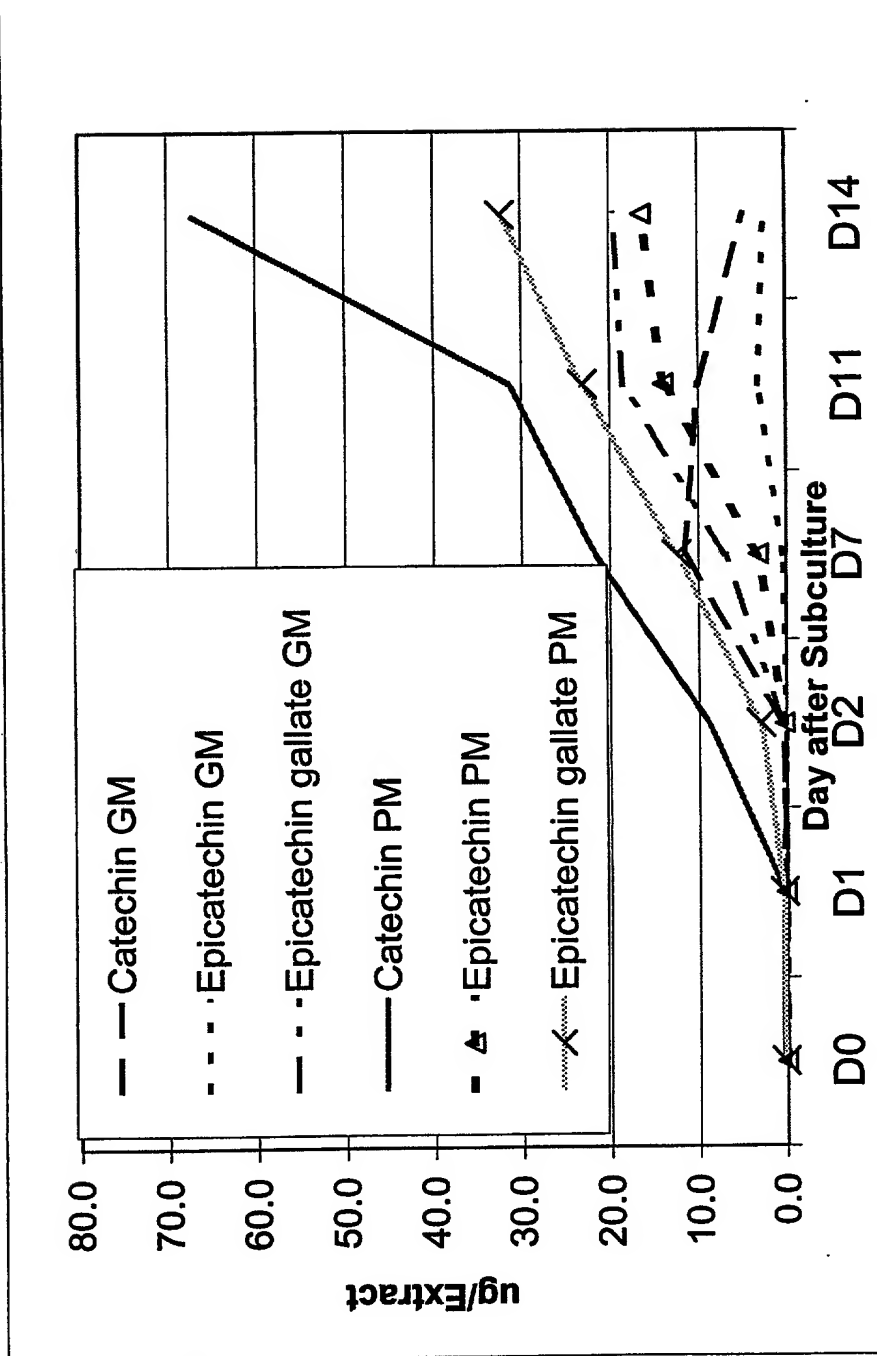


FIG. 9

Part of an AFLP Gel using a Single Primer Pair

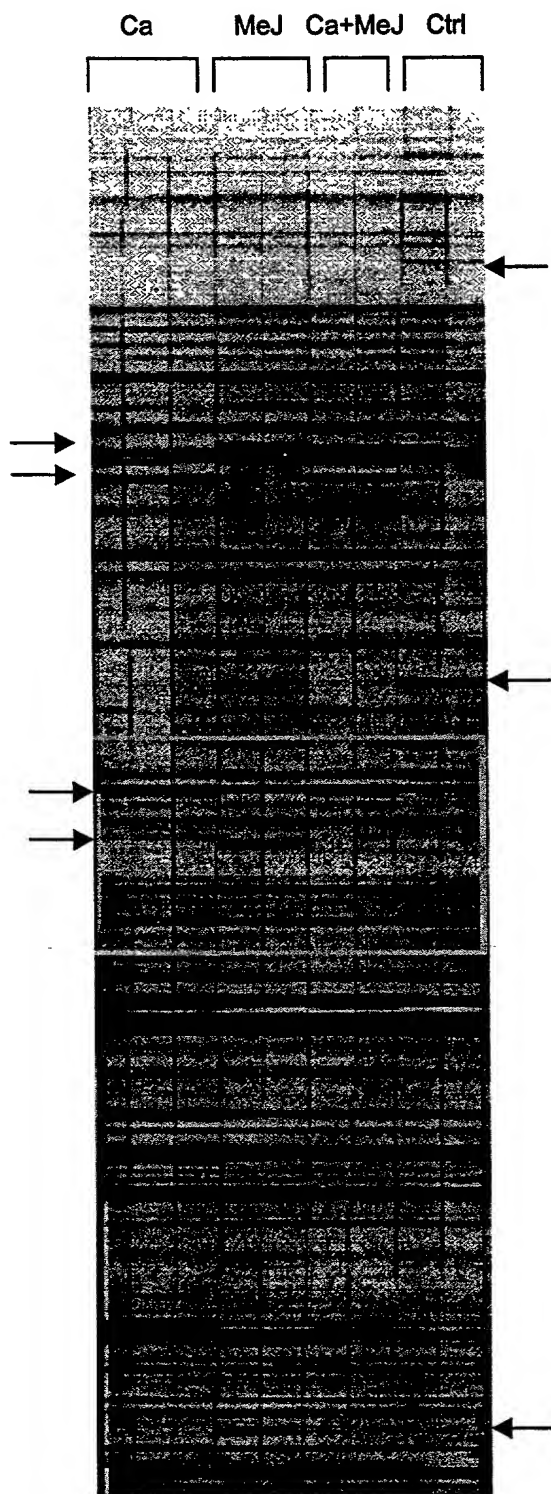


FIG. 10

204210" 6449500T

8 hr RNA

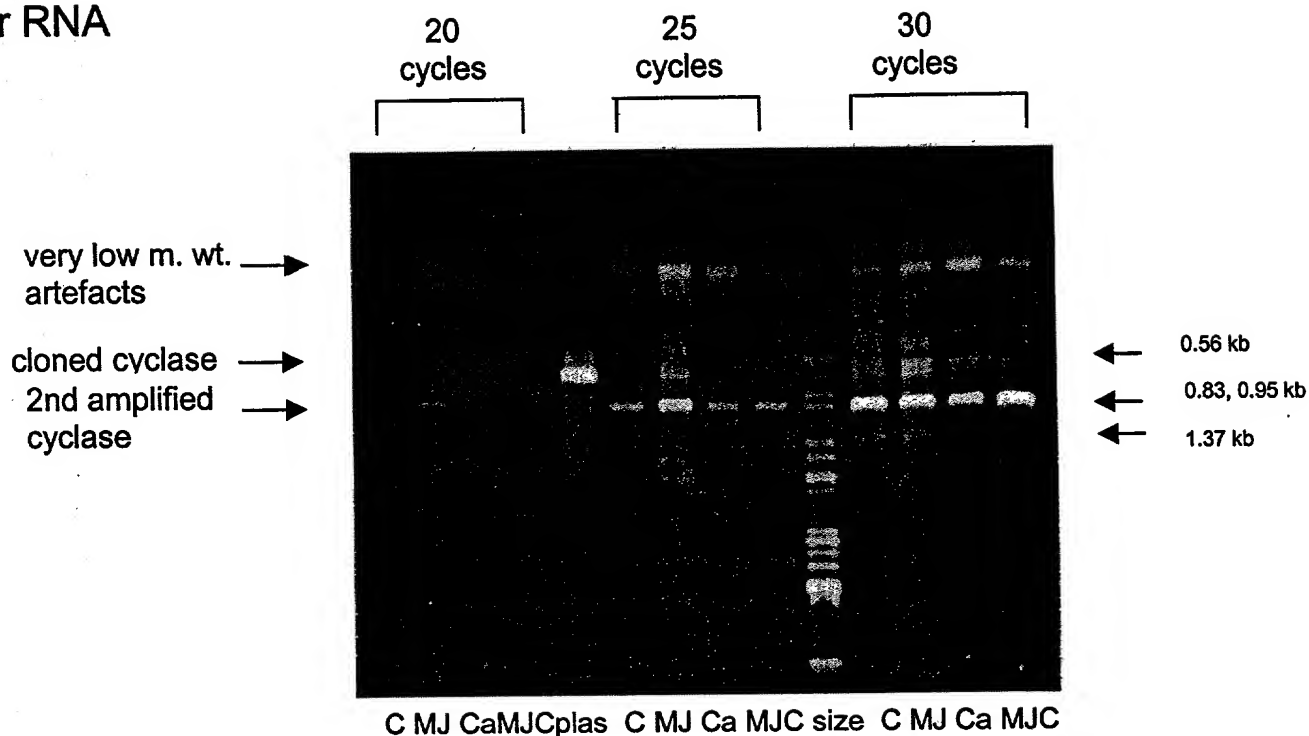
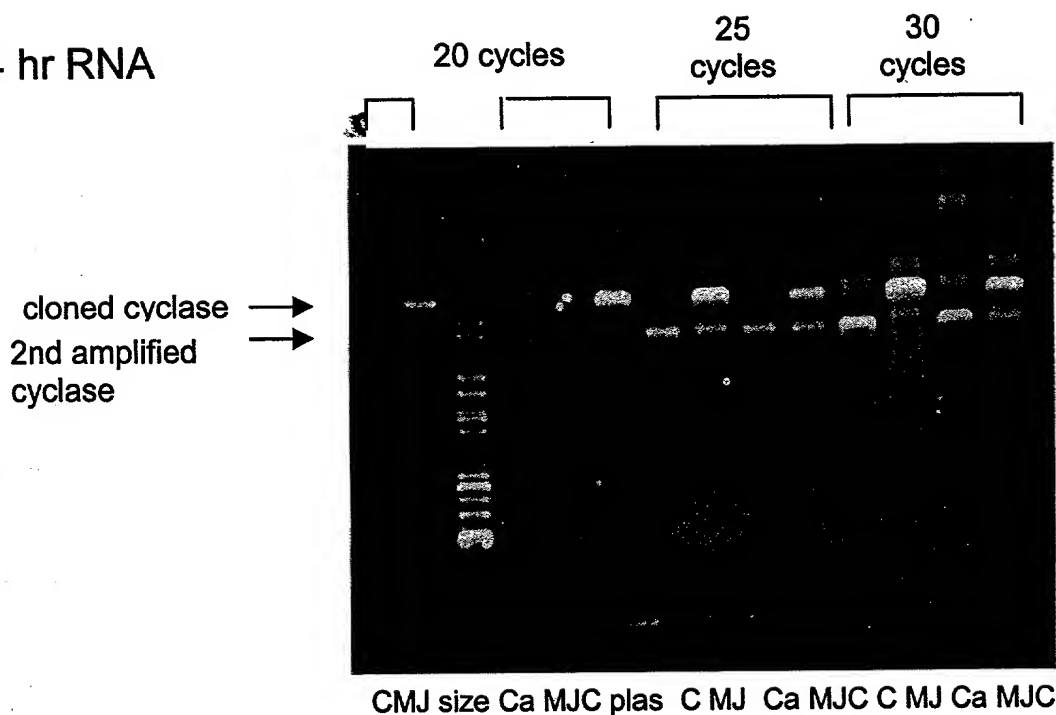


FIG. 11A

24 hr RNA



KEY: C = untreated control, MJ = methyl jasmonate, Ca = Candida, MJC = methyl jasmonate + Candida, size = size markers, plas = control using plasmid containing the cloned gene

FIG. 11B

Primer pair: 1 2 1 2 1 2

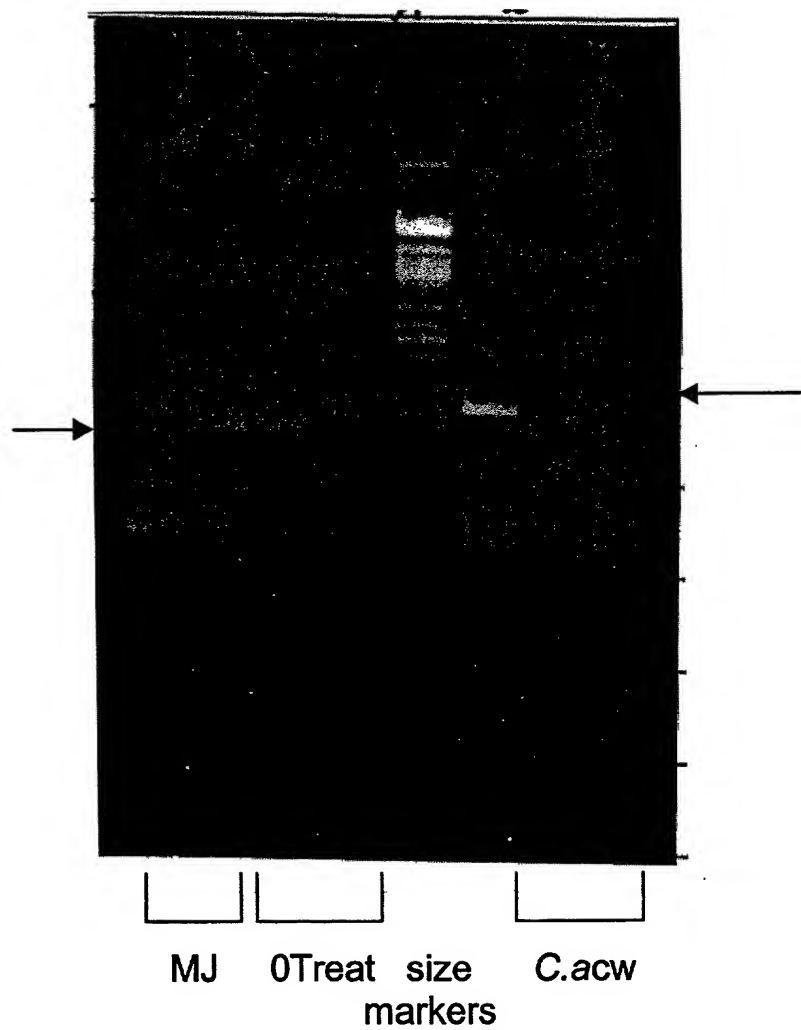
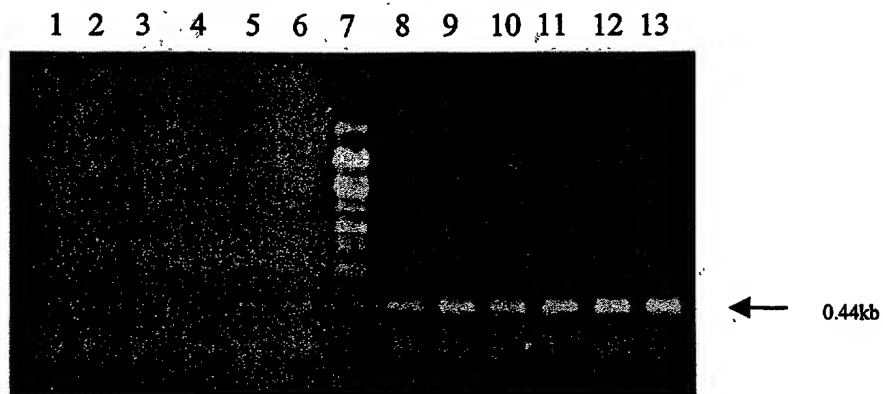


FIG. 12



1	Control (untreated)	15 cycles
2	24 hr post treatment	"
3	48 hr post treatment	"
4	Control (untreated)	20 cycles
5	24 hr post treatment	"
6	48 hr post treatment	"
7	λ phage size ladder	
8	Control (untreated)	25 cycles
9	24 hr post treatment	"
10	48 hr post treatment	"
11	Control (untreated)	30 cycles
12	24 hr post treatment	"
13	48 hr post treatment	"

FIG. 13